

Figure 1

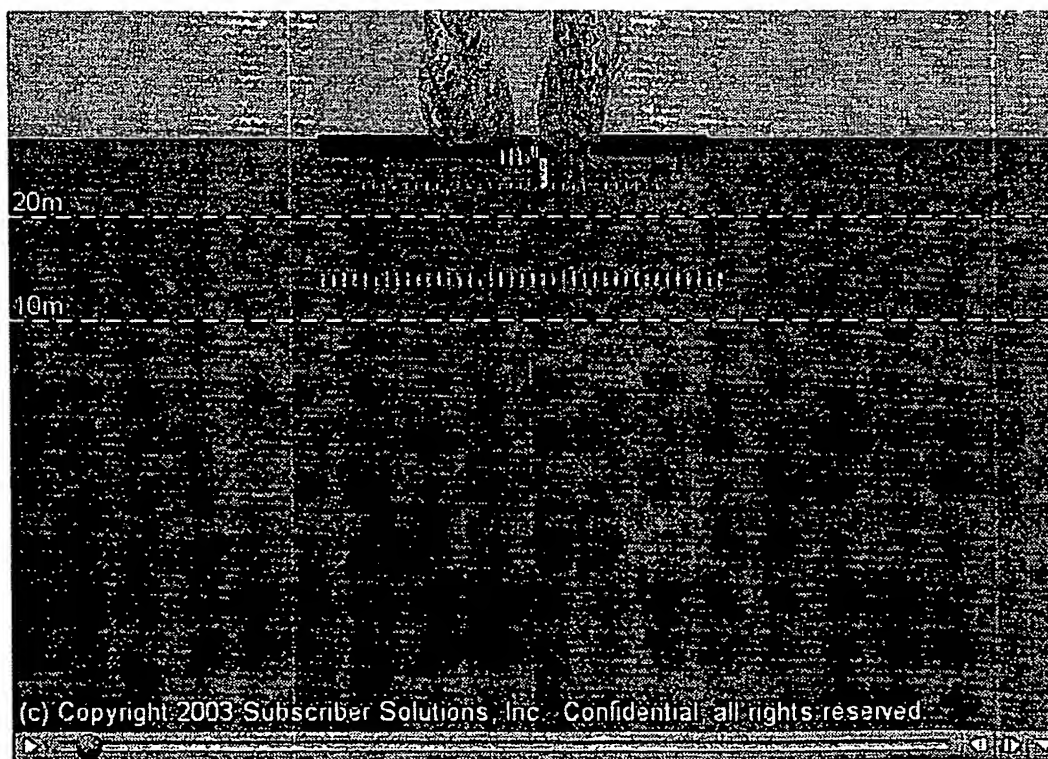


Figure 2

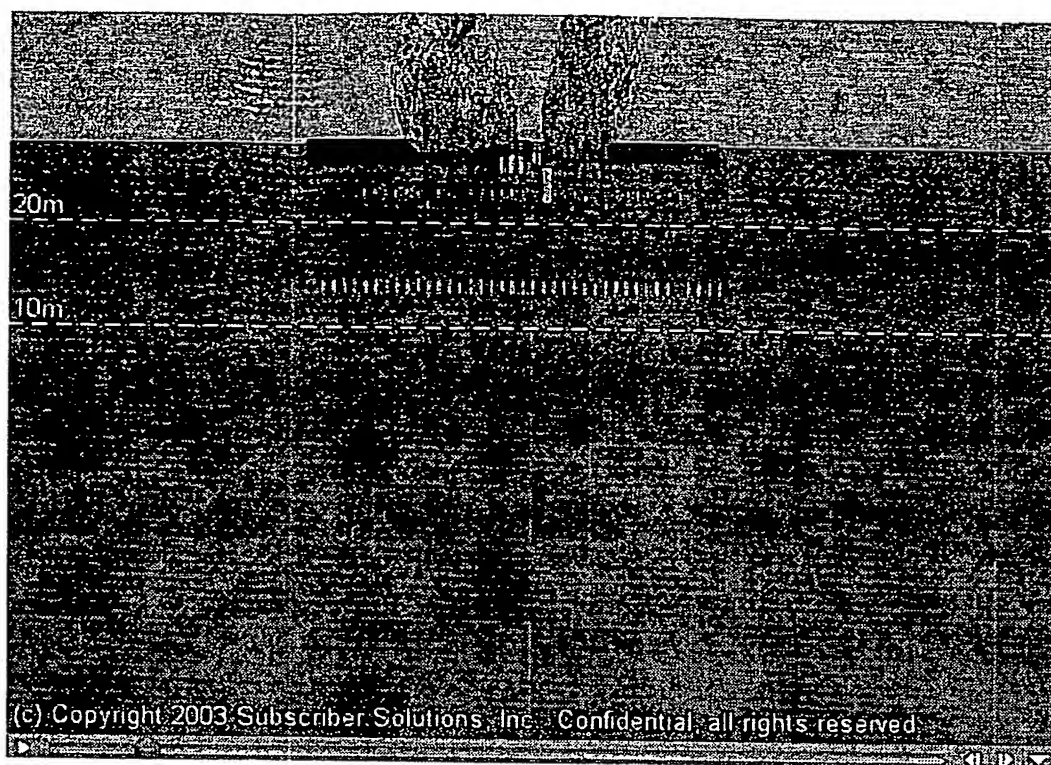


Figure 3

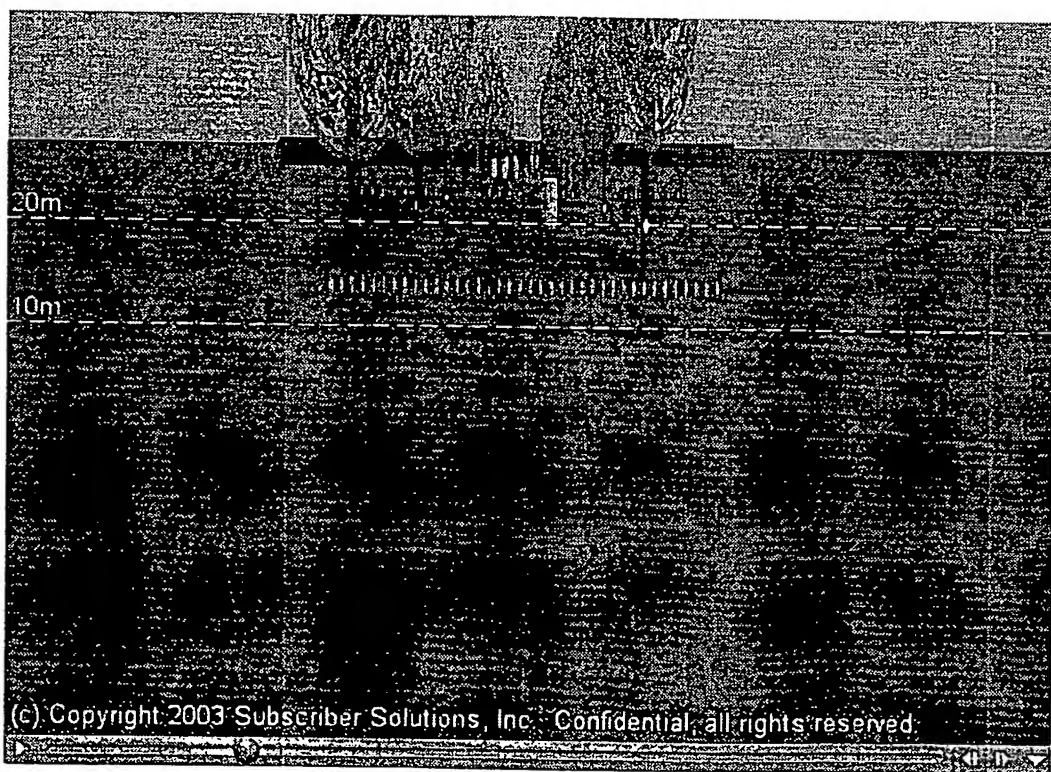


Figure 4

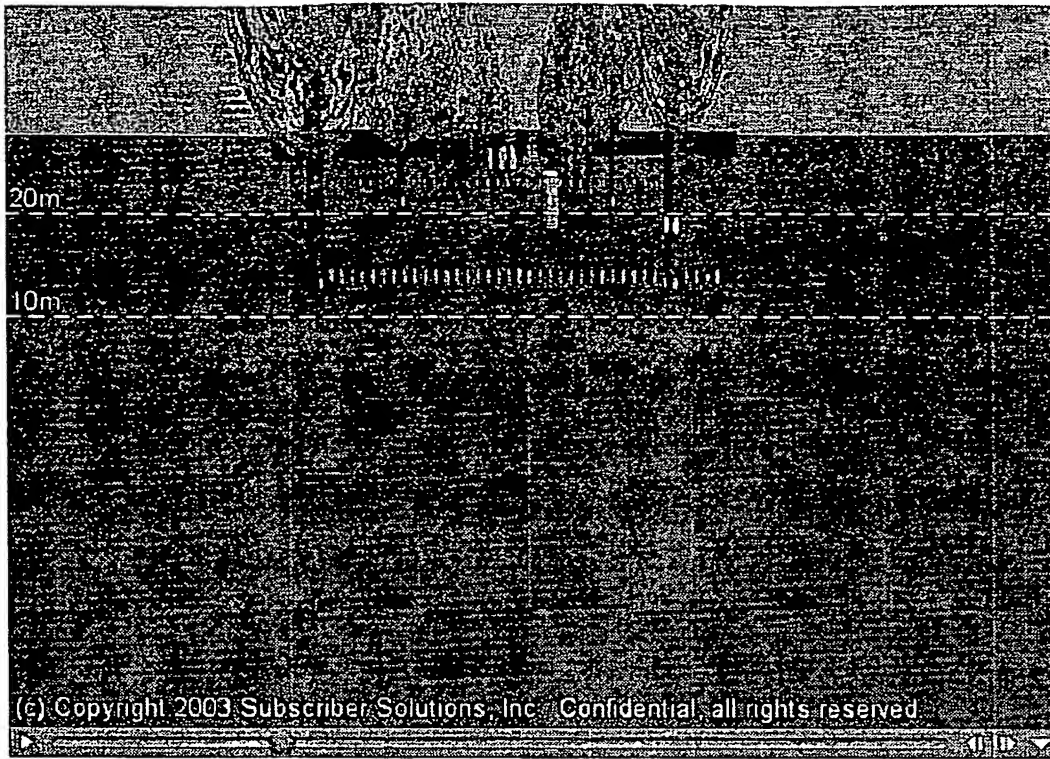


Figure 5



Figure 6

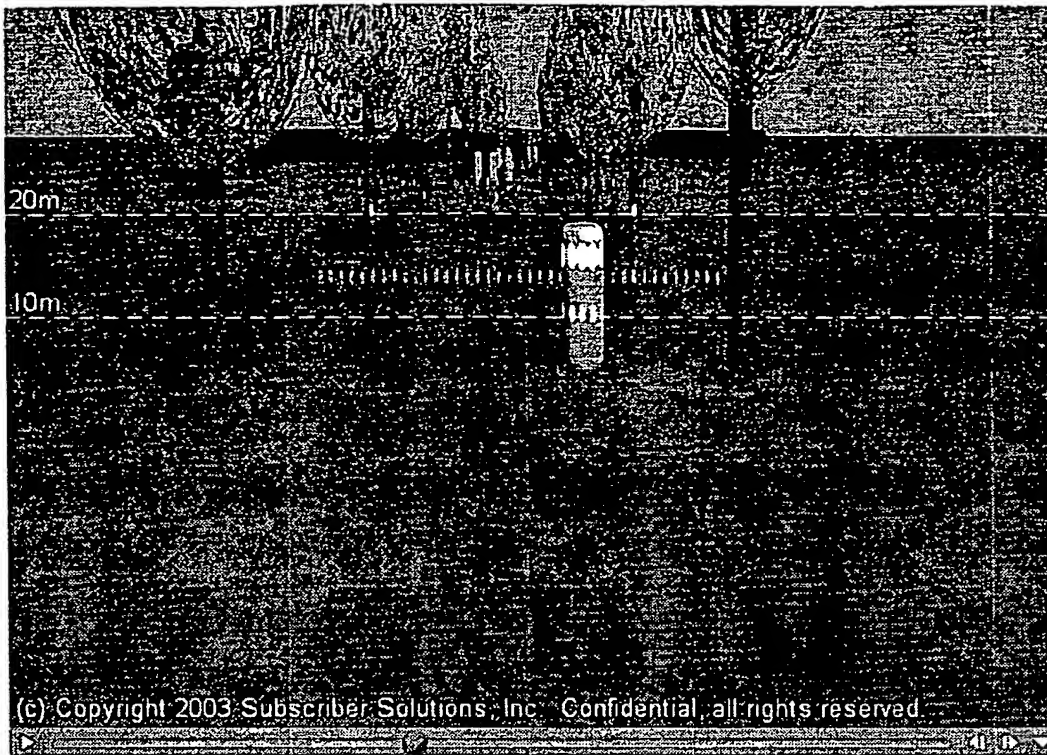


Figure 7

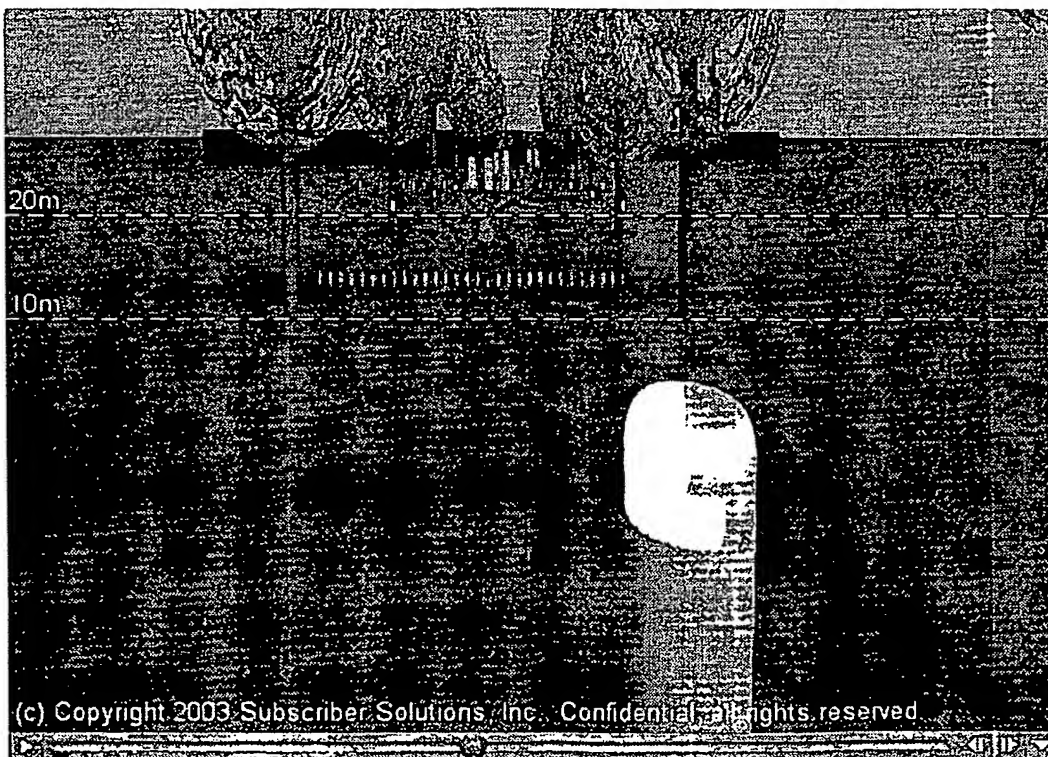


Figure 8



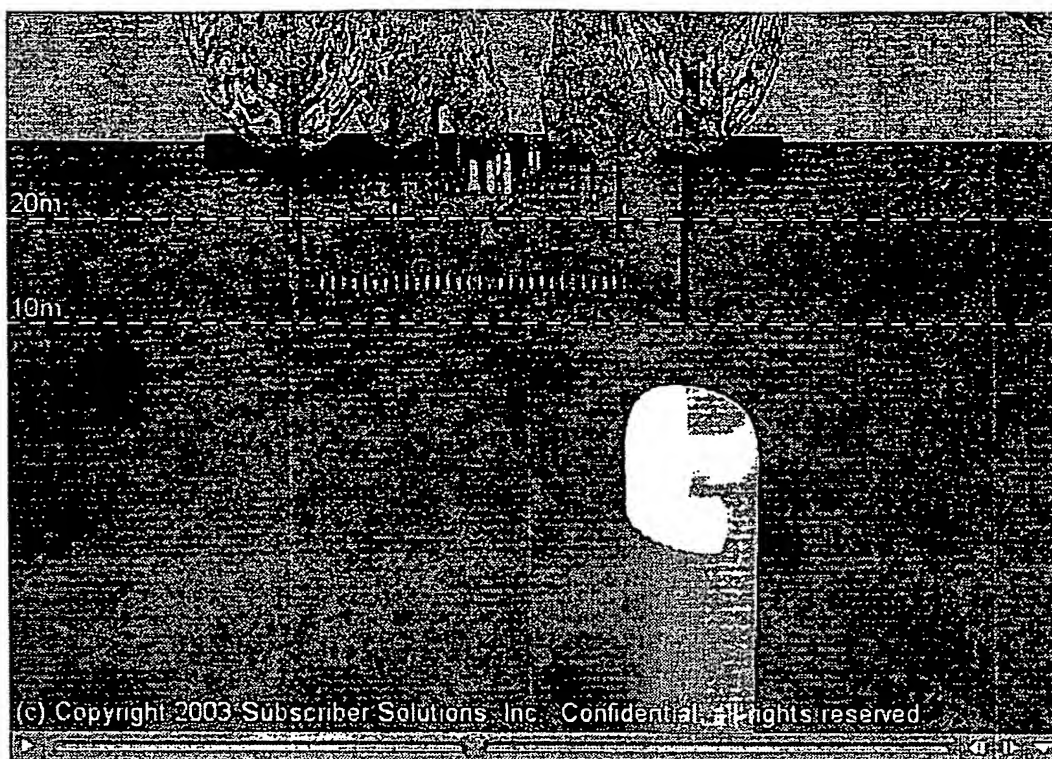


Figure 9

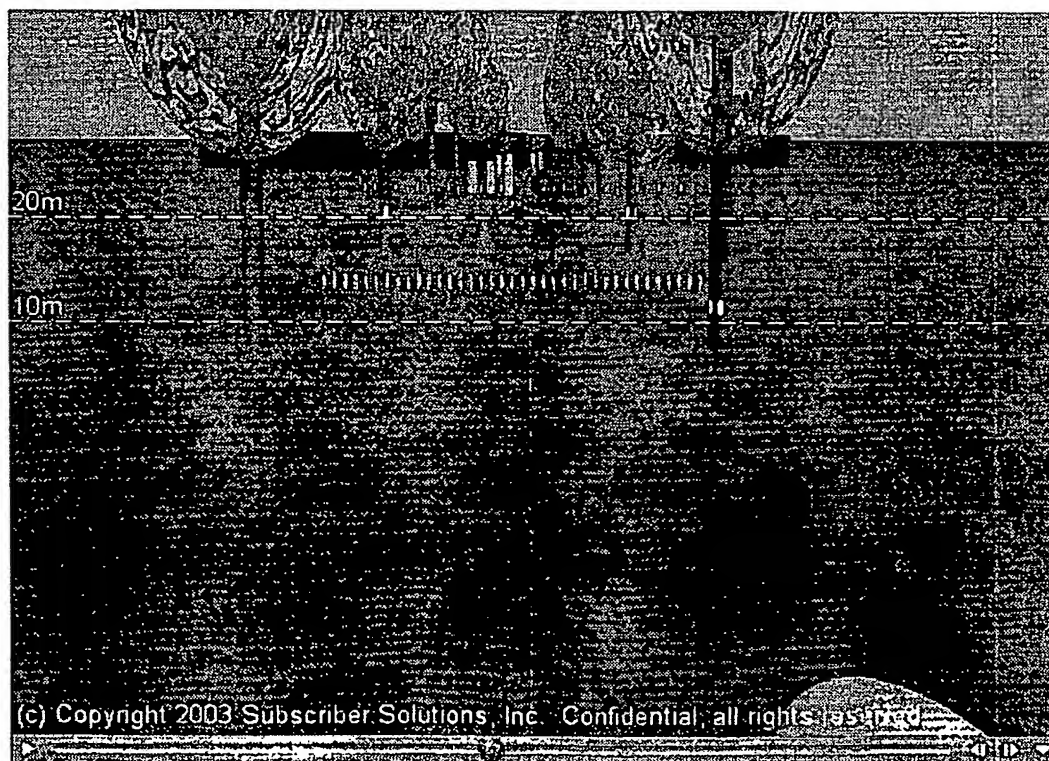


Figure 10

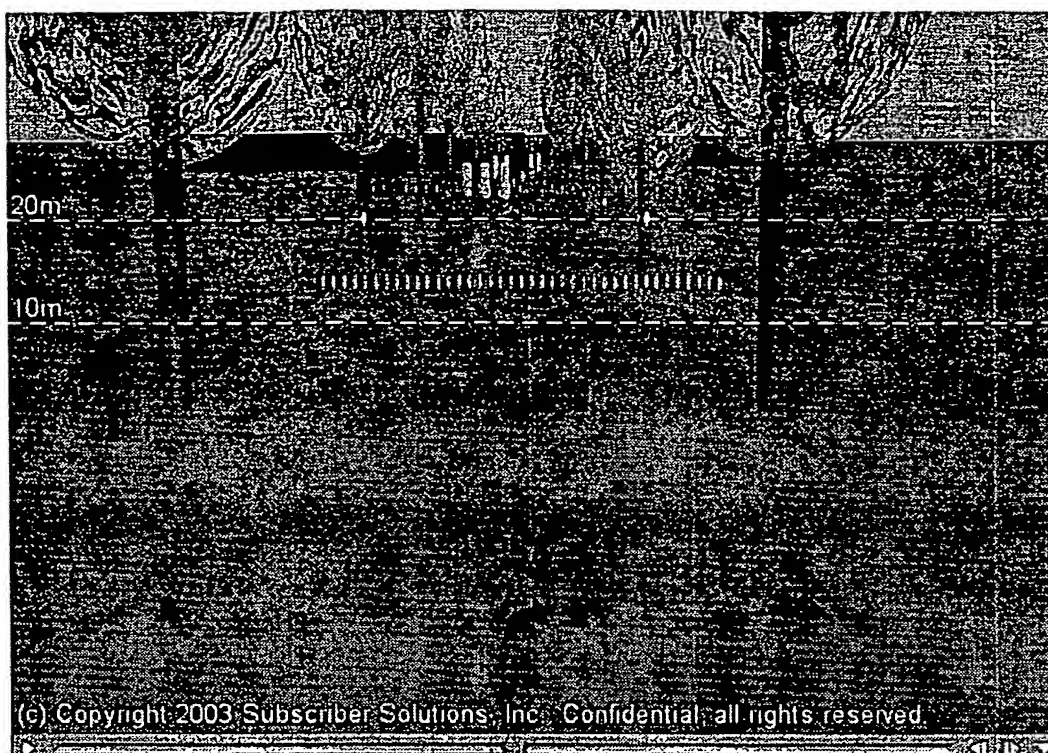


Figure 11

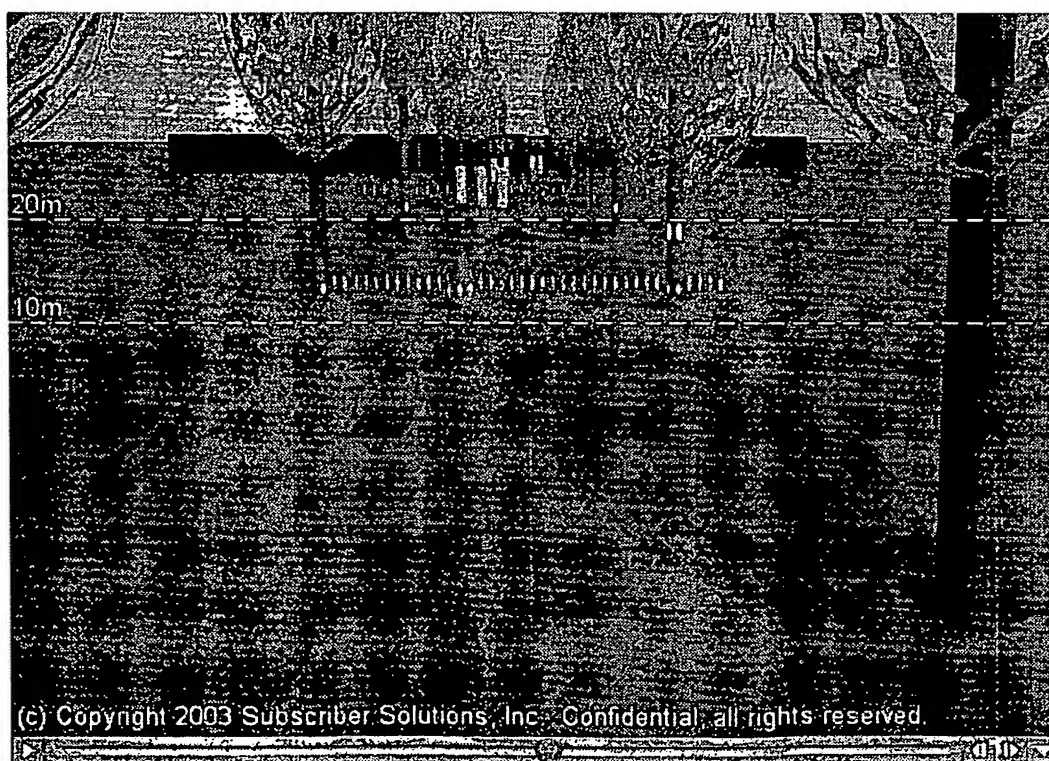


Figure 12

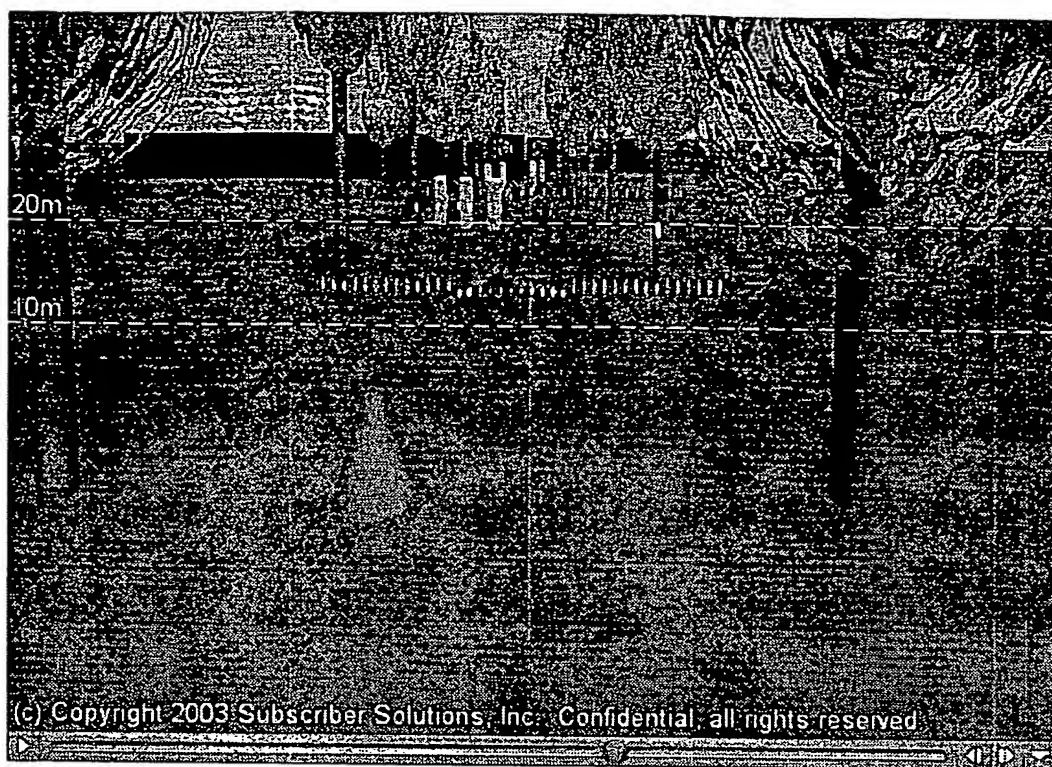


Figure 13

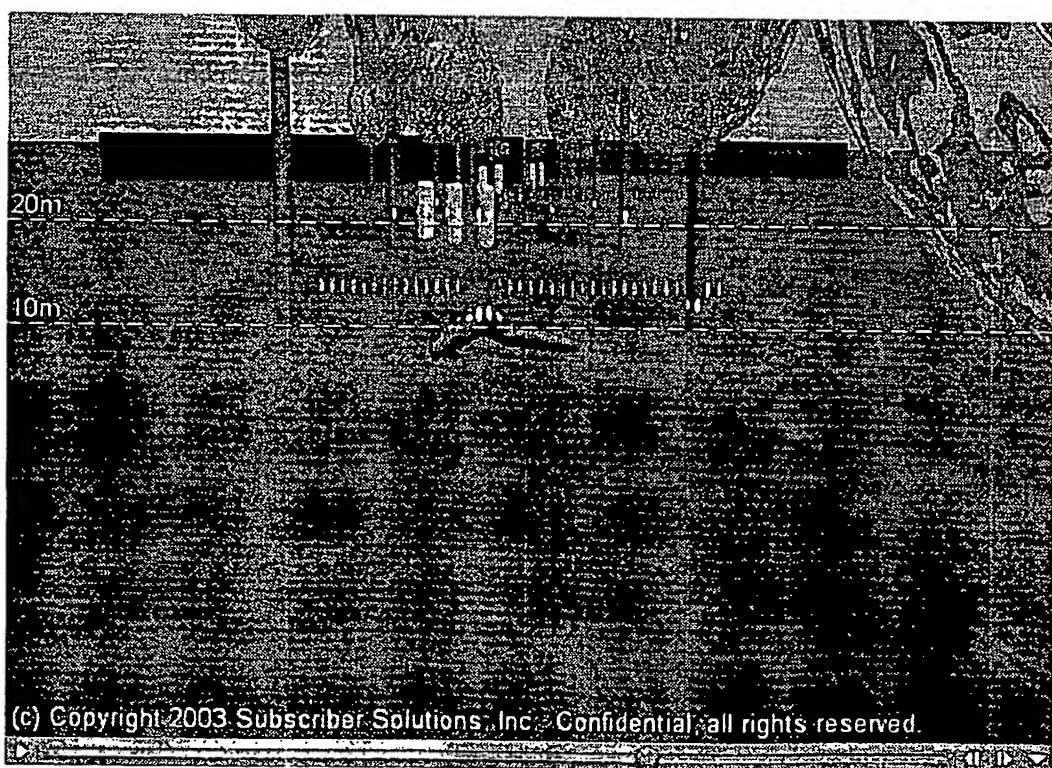


Figure 14





Figure 17

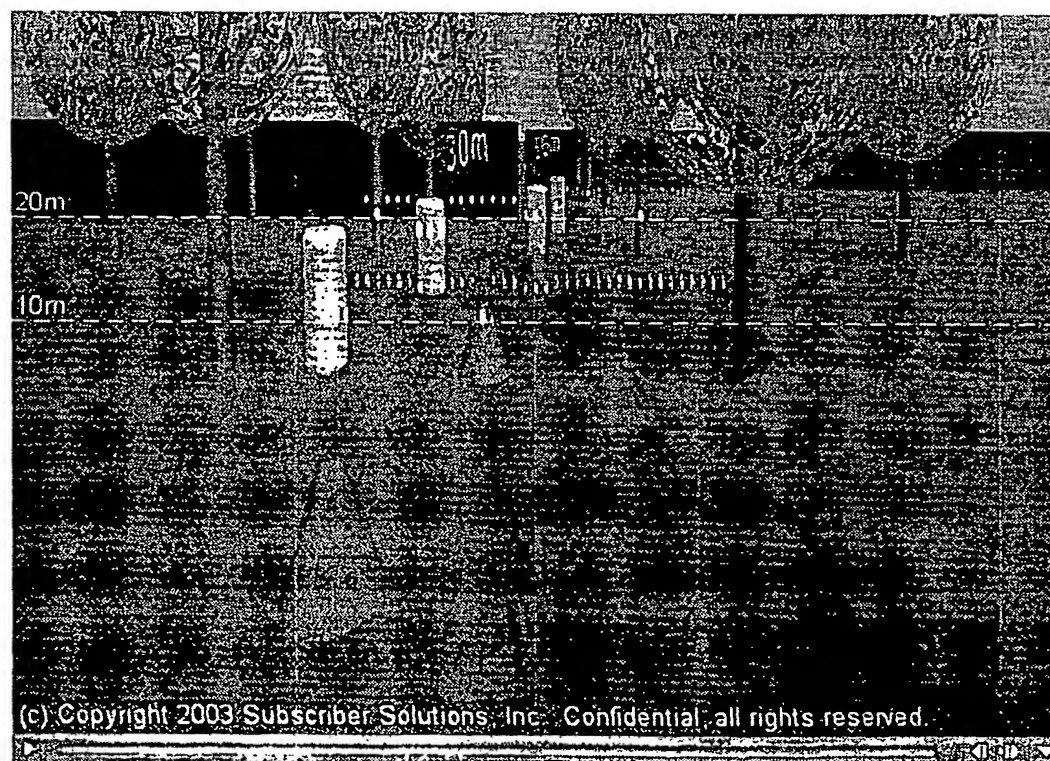


Figure 18



### Ranger illumination patterns

Infrared laser diodes with beamsplitting grating optics are used to create several fields of spots with different powers and elevations, for triangulation ranging by a stereo pair of infrared CCD cameras. Roughly 256 beams are deployed, using 16 laser diodes. Note: this is a hypothetical plan pending detailed design and review.

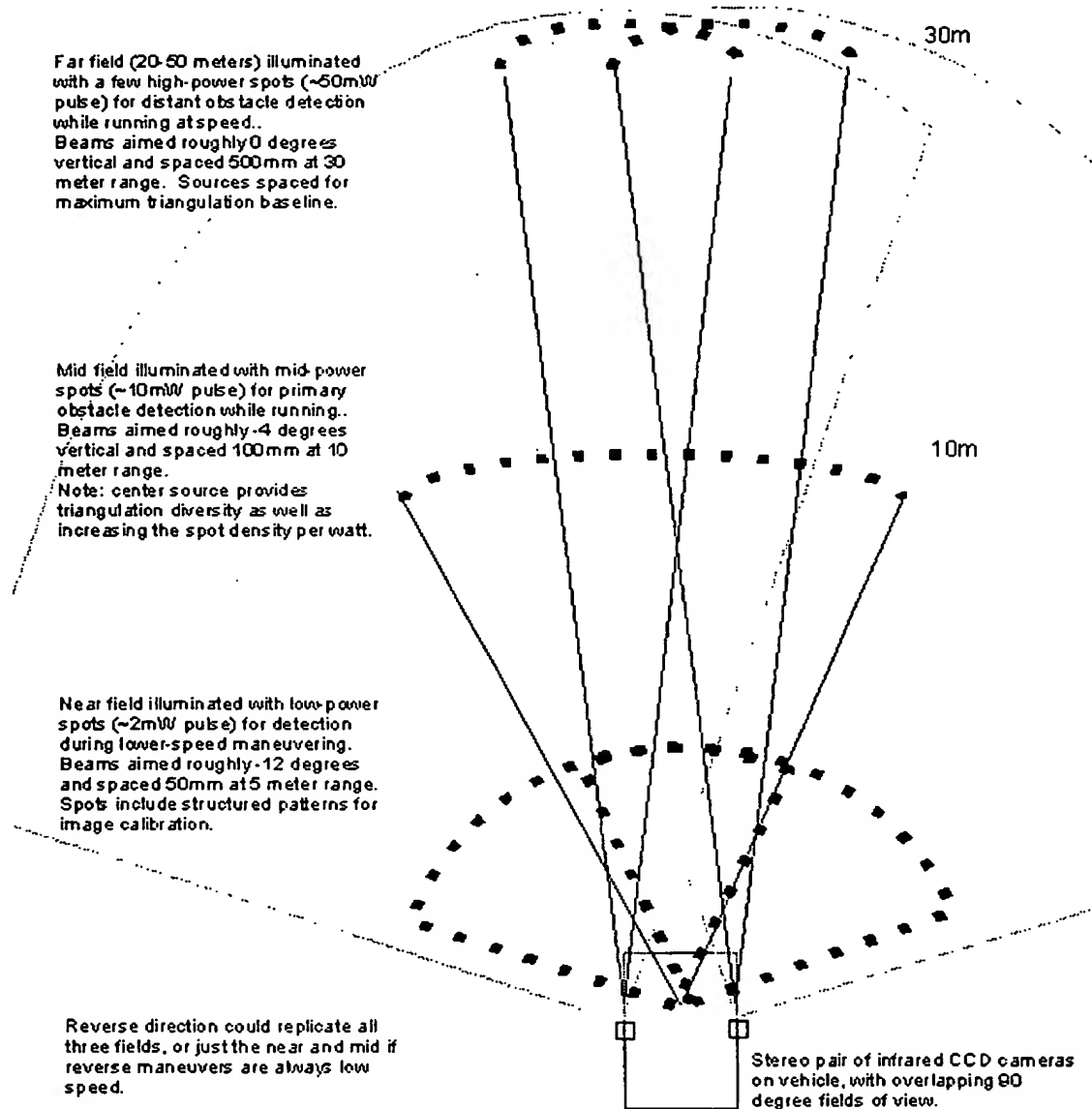


Figure 19

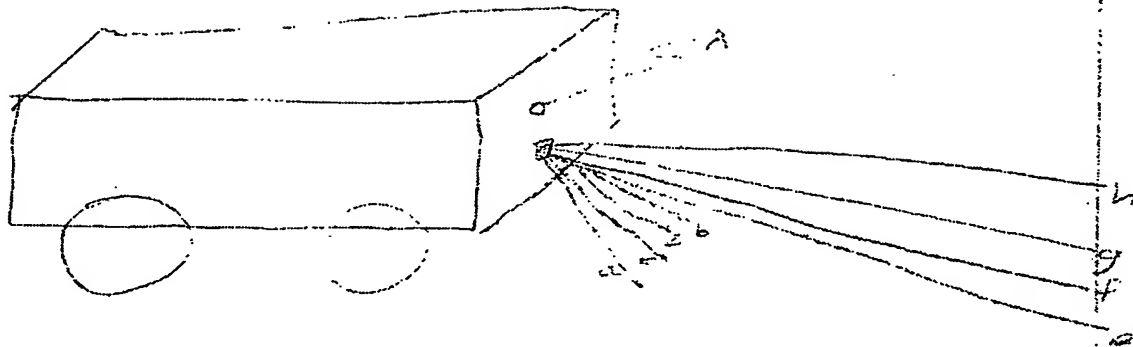


Figure 20

Figure 20

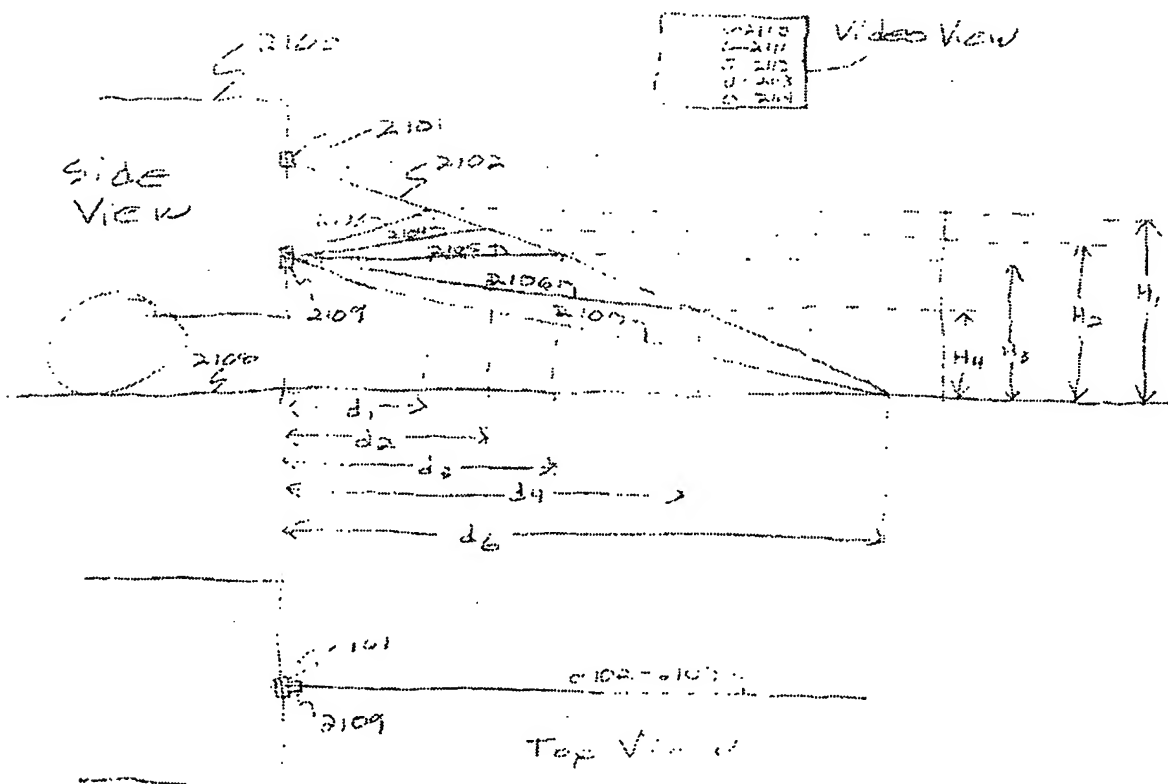


Fig 21

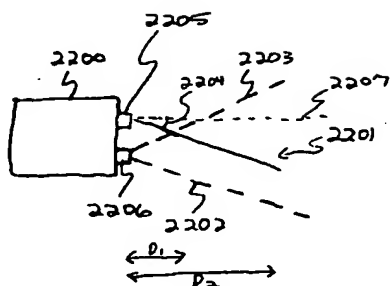


Fig 22A

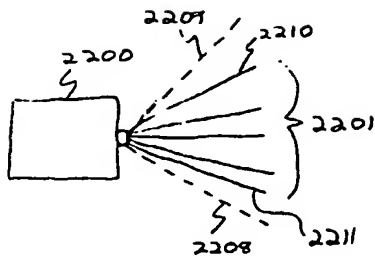


Fig 22B

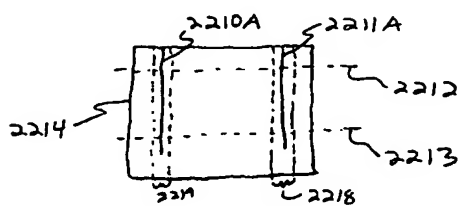


Fig 22C

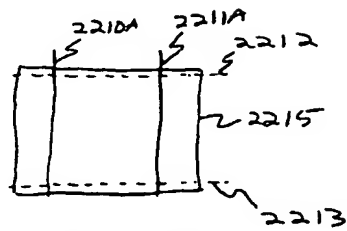


Fig 22D

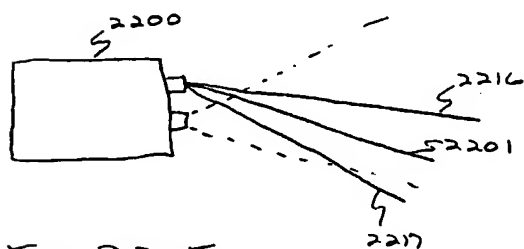


Fig 22E

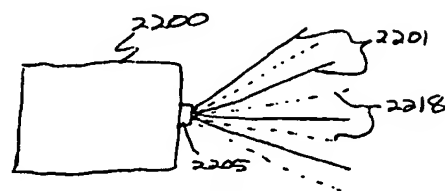


Fig 22F

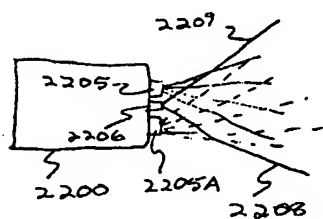


Fig 22G

